

## **ABSTRACT**

**Objectives :** To establish the various endometrial causes of postmenopausal bleeding through Histopathological examination and to correlate the clinical and Histopathological findings. This study also evaluates the relation between age ,parity, post menopausal bleeding duration, TV usg endometrial thickness, uterine size, body mass index time since menopause and medical disorders in women presenting with postmenopausal bleeding versus the risk of endometrial cancer.

**Materials and Methods :** This prospective study included complete clinical evaluation of postmenopausal women with bleeding and correlated with the histomorphology of endometrial specimens from them, taken over a period of one year in the Department of obstetrics & gynecology, Kasturba Gandhi hospital, Madras Medical College, Chennai.

**Results :** Out of 104 cases, postmenopausal bleeding presented at a mean age of 55.4 years and was most common within 5 years of attaining menopause. Among the endometrial causes of postmenopausal bleeding, 70.2 % were due to benign conditions, 20.2% were due to pre(malignancy) of endometrium and in 9.6% of cases no diagnostic material was detected. Endometrial hyperplasia was most common

among the benign causes followed by atrophic endometrium and endometrioid adenocarcinoma was a major finding among the malignant causes. Among the less common entities, 2 cases of malignancy were followed by tamoxifene chemotherapy & 1 case of Squamous cell carcinoma of endometrial polyp was one of the rarest malignancies encountered in this study. All cases of cancer endometrium were associated with 1/ more risk factors.

**Conclusion :** The only symptom suggesting an endometrial pathology in postmenopausal women is uterine bleeding. All cases of malignancy were associated with 1 or more risk factors. Although, patients presented with lesser duration of postmenopausal bleeding 33.4% of malignancies had lymph vascular space invasion & underwent radiotherapy. Hence, it remains sufficiently high to require immediate and thorough investigations of all post menopausal bleeding women .

**Keywords :** postmenopausal bleeding, histopathology ,carcinoma endometrium ,endometrial hyperplasia.